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202602UECM3463OE1b

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Started on	Thursday, 26 February 2026, 08:10 PM
Completed on	Thursday, 26 February 2026, 08:10 PM
Time taken	8 secs
Grade	0 out of a maximum of 10 (0%)

1

Marks: 1

The probability density function of loss amounts is given by

$$f(x) = 8(480-x)^7/480^8, 0 < x \leq 480$$

An insurance coverage for these losses has an ordinary deductible of 100 Calculate the mean exceeds loss at 100. _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 42.222222

Marks for this submission: 0/1.

2 

Marks: 1

You are given:

- Auto liability losses for a group of insureds (Group R) follow a Pareto distribution with $\alpha = 6$ and $\theta = 220$.
- Losses from second group (Group S) follow a Pareto distribution with $\alpha = 6$ and $\theta = 300$.
- Group R has an ordinary deductible of 242, while Group S has a franchise deductible of 375.

Calculate the amount that the expected cost per payment for group S exceeds that for Group R. _____

Answer:

X[Make comment or override grade](#)

Incorrect

Correct answer: 417.6

Marks for this submission: 0/1.

3 

Marks: 1

The distribution of X is specified by it's hazard rate function

$$h(x) = xe^{-0.2x} / \int_x^{\infty} s e^{-0.2s} ds, x > 0$$

Determine the average payment per loss under a policy with 3 franchise deductible. _____

Answer:

X[Make comment or override grade](#)

Incorrect

Correct answer: 0.0004

Marks for this submission: 0/1.

4 

Marks: 1

Let X be a discrete random variable with probability generating function

$$P_X(z) = 0.41z^{220} + 0.25z^{660} + 0.23z^{1100} + 0.08z^{1540} + 0.03z^{1980}$$

Calculate LER(1,200). _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 0.926752

Marks for this submission: 0/1.

5



Marks: 1

An individual losses has the Pareto distribution with parameters $\alpha = 3$ and $\theta = 170$ with deductible of 60.5, coinsurance of 75% and a loss limit of 121.00 (before application of the deductible and coinsurance) are applied to each individual loss. Loss sizes are affected by 10% inflation. Determine the variance of the loss payment on the per payment basic. _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 248.48

Marks for this submission: 0/1.

6



Marks: 1

In a major college football program, the revenue from ticket sales for a home game is being modeled as a Pareto distribution with $\alpha = 5$ and $\theta = 1,600,000$. For each home game, the coach receives a bonus only if revenue exceeds 1,120,000. The amount of bonus is 6% of the revenue in excess of 1,120,000. If there are 6 home games in each football season, calculate the expected bonus the football coach receives each football season. _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 17241.172879

Marks for this submission: 0/1.

7



Marks: 1

Annual losses follow a Pareto distribution with $\alpha = 4.20$ and $\theta = 1,850$. Calculate $\text{VaR}_{0.901}$. _____

Answer:

X

[Make comment or override grade](#)

Incorrect

Correct answer: 1358.53075

Marks for this submission: 0/1.

8

Marks: 1

Annual losses follow a Pareto distribution with parameters $\alpha = 5$ and $\theta = 900$. $\text{TVaR}_p = 1,044$, Determine p . _____

Answer:

X

[Make comment or override grade](#)

Incorrect

Correct answer: 0.935095

Marks for this submission: 0/1.

9

Marks: 1

The losses experienced by an insurance company have the following probability distribution:

Loss size	Probability
0	0.60
180	0.25
280	0.10
1,360	0.05

Calculate the $\text{CTE}_{0.68}$. _____

Answer:

X

[Make comment or override grade](#)

Incorrect

Correct answer: 395.625

Marks for this submission: 0/1.

10



Marks: 1

Annual losses follow a Gamma distribution with parameters $\alpha = 3$ and $\theta = 900$. $\text{VaR}_{0.95} = 5666.21$, Determine $\text{TVaR}_{0.95}$. _____

Answer:



[Make comment or override grade](#)

Incorrect

Correct answer: 6841.8

Marks for this submission: 0/1.



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